Data sheet

Fuseless motor starter Direct start 600VAC Size S0 0.55-0.8A 110/120VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (contactor)



Product brand name	SIRIUS	
Product designation	non-fused motor starter 3RA2	
Design of the product	direct starter	
Manufacturer's article number		
 of the supplied contactor 	3RT2023-1AK60	
 of the supplied circuit-breakers 	3RV2011-0HA10	
 of the supplied busbar adapter 	8US1251-5NT10	
 of the supplied link module 	3RA2921-1AA00	

General technical data		
Size of the circuit-breaker	S00	
Size of load feeder	S0	
Product extension		
Auxiliary switch	Yes	
Insulation voltage		
 with degree of pollution 3 at AC rated value 	690 V	
Degree of pollution	3	
Surge voltage resistance rated value	6 kV	
Protection class IP		
• on the front	IP20	

of the terminal	IP00
Shock resistance	
• acc. to IEC 60068-2-27	6g / 11 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
Type of assignment	2
Main circuit	
Number of poles for main current circuit	3
Design of the switching contact	electromechanical
Adjustable pick-up value current of the current-	0.55 0.8 A
dependent overload release	
Operating voltage	
rated value	690 V
at AC-3 rated value maximum	690 V
Operating frequency rated value	50 60 Hz
Operating current	
• at AC-3	
— at 400 V rated value	0.6 A
Operating power	
• at AC-3	
— at 400 V rated value	180 W
— at 500 V rated value	250 W
— at 690 V rated value	370 W
Control circuit/ Control	
Control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 50 Hz rated value	88 121 V
• at 60 Hz rated value	120 V
• at 60 Hz rated value	96 132 V
Apparent holding power of magnet coil at AC	7.2 V·A
Inductive power factor with the holding power of the	0.28
coil	
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	1
Number of NO contacts for auxiliary contacts	1
Protective and monitoring functions	
Trip class	CLASS 10

\sim 1			
Shor	t-circu	ut pro	tection

Response value current

Design of the overload release

• of instantaneous short-circuit trip unit

thermal (bimetallic)

10.4 A

Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Conditional short-circuit current (Iq)	
• at 400 V acc. to IEC 60947-4-1 rated value	153 000 A

Installation/ mounting/ dimensions		
Mounting position	vertical	
Mounting type	for snapping onto 60 mm busbar systems	
Height	260 mm	
Width	45 mm	
Depth	155 mm	
Required spacing		
for grounded parts		
— forwards	10 mm	
— Backwards	0 mm	
— upwards	30 mm	
— at the side	9 mm	
— downwards	10 mm	
• for live parts		
— forwards	10 mm	
— Backwards	0 mm	
— upwards	30 mm	
— downwards	10 mm	
— at the side	9 mm	

Connections/ Terminals	
Type of electrical connection	
• for main current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— stranded	1 10 mm², 2x (2.5 6 mm²)
 at AWG conductors for main contacts 	2x (16 12), 2x (14 8)
Connectable conductor cross-section for main	
contacts	
 finely stranded with core end processing 	1 6 mm²

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
• with high demand rate acc. to SN 31920	73 %

Certificates/ approvals

General Product	For use in hazard-	Declaration of Con-	other
Approval	ous locations	formity	







Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2120-0HD23-0AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-0HD23-0AK6

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-0HD23-0AK6

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

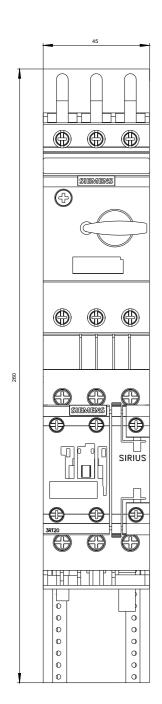
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-0HD23-0AK6&lang=en

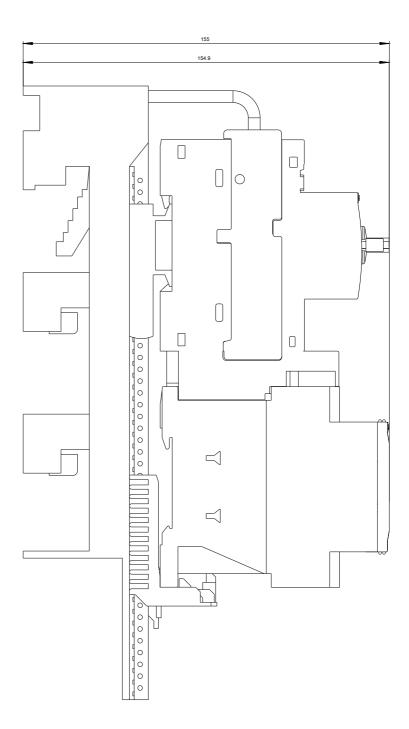
Characteristic: Tripping characteristics, I2t, Let-through current

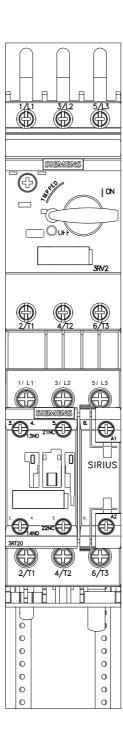
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-0HD23-0AK6/char

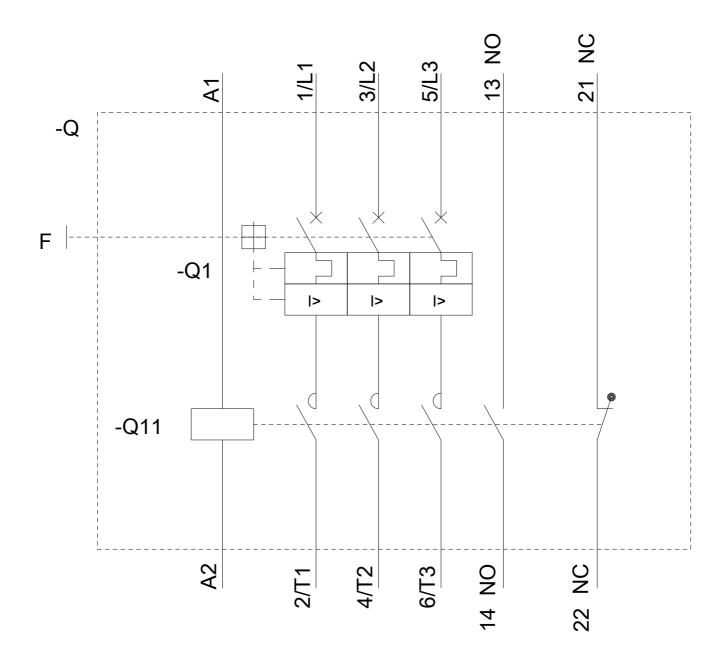
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-0HD23-0AK6&objecttype=14&gridview=view1









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